

February Open Ended Questions  
Math for Standards

Name \_\_\_\_\_

***SHOW AND EXPLAIN ALL WORK!!!***

Date \_\_\_\_\_

Each part of the following Open Ended Questions is worth 6 points, work and explanation. You may use a separate sheet of paper.

1. Matt Mitarnowski boards cats for their owners. He charges for mileage, meals, and for each night's stay. Fees for the services are shown in the table.

**Services and Fees**

<b>Mileage</b>	<b>Overnight Stay</b>	<b>Meal</b>
\$0.19/mile	\$6.25	\$1.85

A. Fuzzy Jeff's cat stayed with Matt for 9 nights and ate 11 meals. Matt drove 56 miles total to pick up and drop off Jeff's cat. What is the total fee for all services?

B. One can of cat food feeds 3 cats. In order to feed 24 cats, exactly how many cans of cat food will Matt need?

C. It took Matt and his helper 24 minutes to feed 18 cats. Working at the same rate, how long would it take Matt and 2 helpers to feed 18 cats?

2. Matt Mitarnowski created a coordinate grid to identify the locations of the houses of his friends Carol and Julia.

A. What are the coordinates for the midpoint between Carol and Julia's houses?

B. There is a straight path between Carol and Julia's houses. If Carol and Julia meet at the midpoint between their houses, what distance would each have to walk? Round to the nearest yard.

